Appendix E Bay Area and Delta Watersheds Outside the FPIP Geographic Scope

Figures

Photographs

Tables

Figure E-1 2003 Fish Passage Improvement Program priority waterways and known structures of the Bay Area and Delta

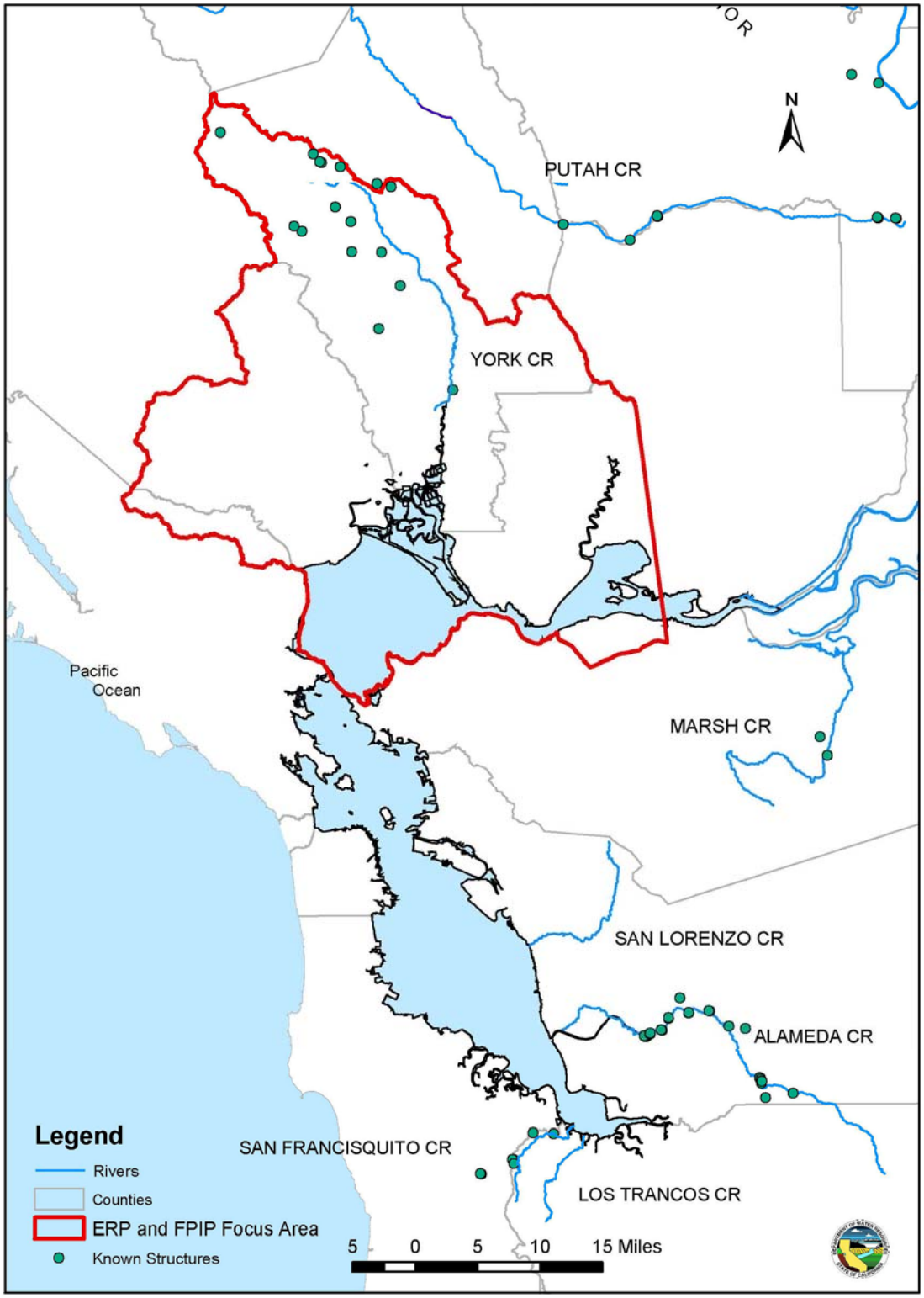
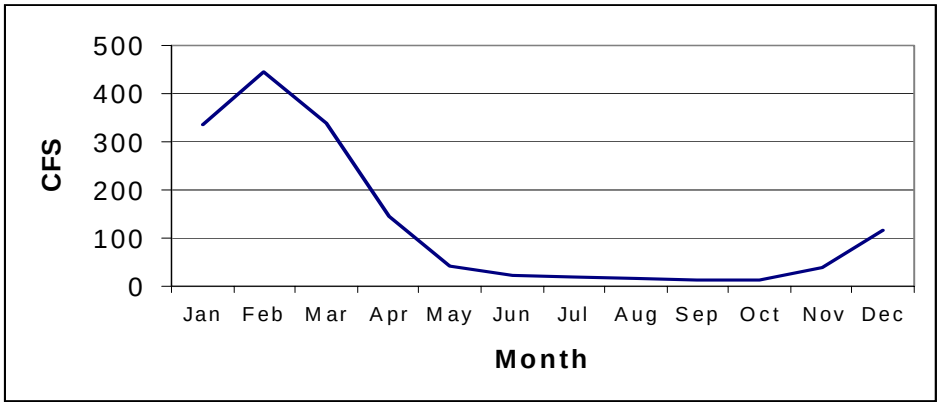
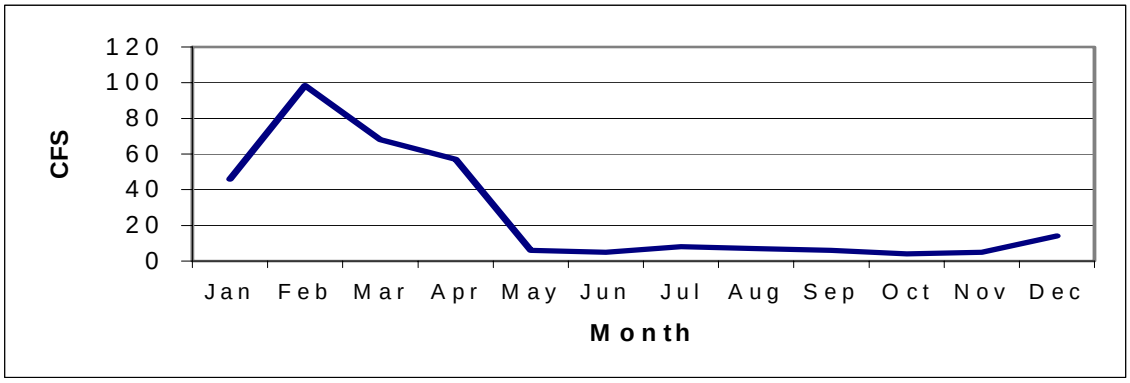


Figure E-2 Mean monthly flows from 1891 to 2000 on Alameda Creek at Niles



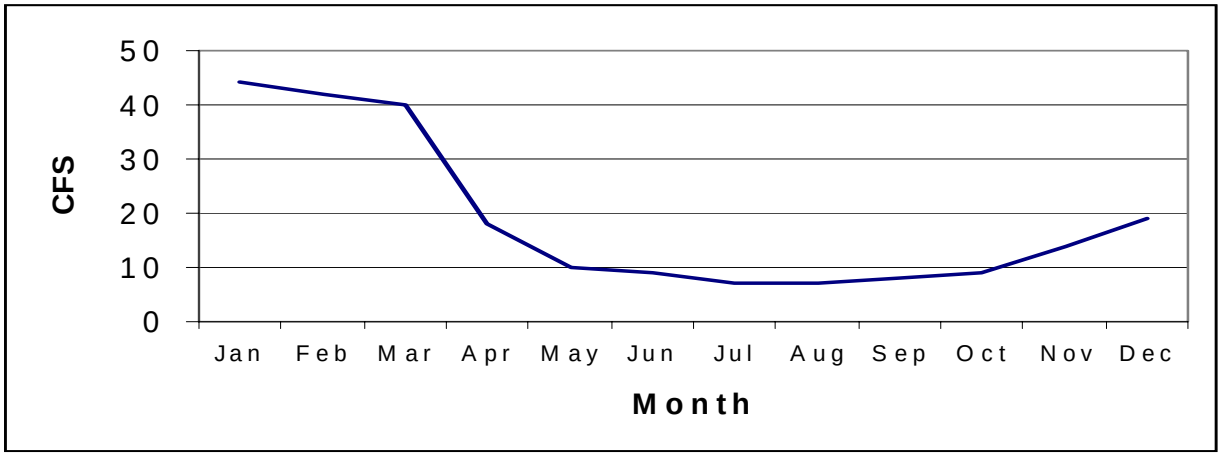
Note: USGS gage number 11179000 (USGS 2002)

Figure E-3 Mean monthly flows from 1957 to 1985 on Arroyo Valle at Pleasanton



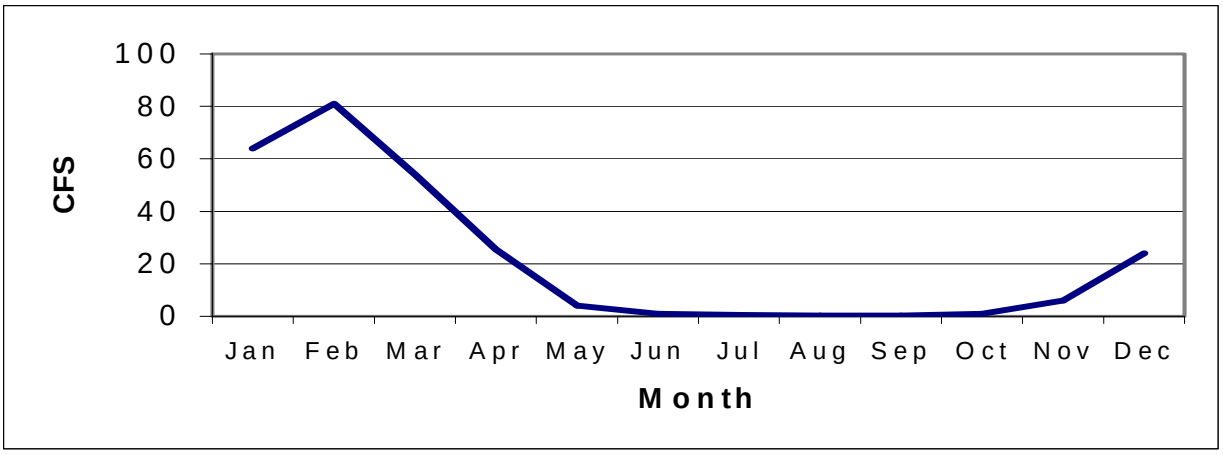
Note: USGS gage number 11176600 (USGS 2002)

Figure E-4 Mean monthly flows from 1962 to 1985 on Arroyo Mocho at Pleasanton



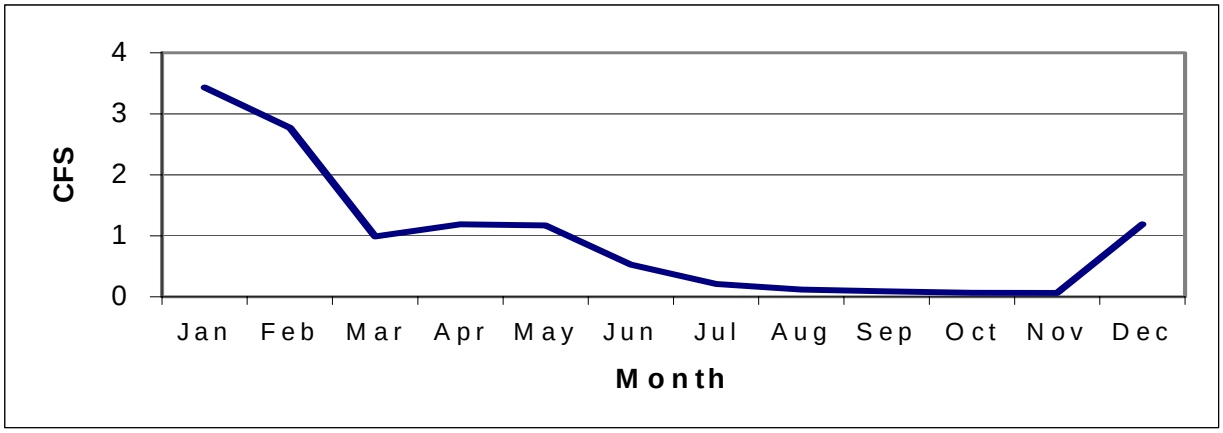
Note: USGS gage number 11176200 (USGS 2002)

Figure E-5 Mean monthly flows from 1930 to 2000 on San Francisquito Creek at Stanford University



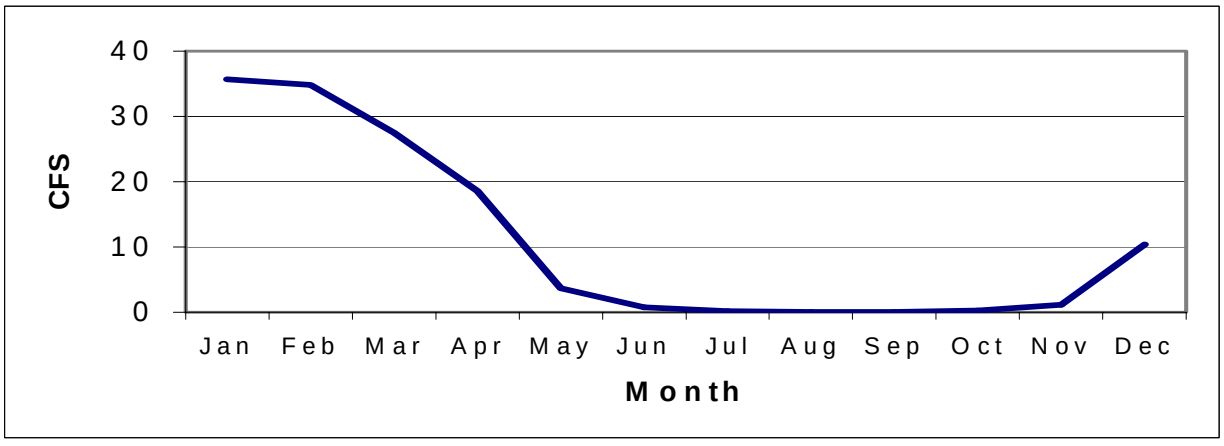
Note: USGS gage number 11164500 (USGS 2002)

Figure E-6 Mean monthly flows from 1930 to 1941 on Los Trancos Creek near Stanford University



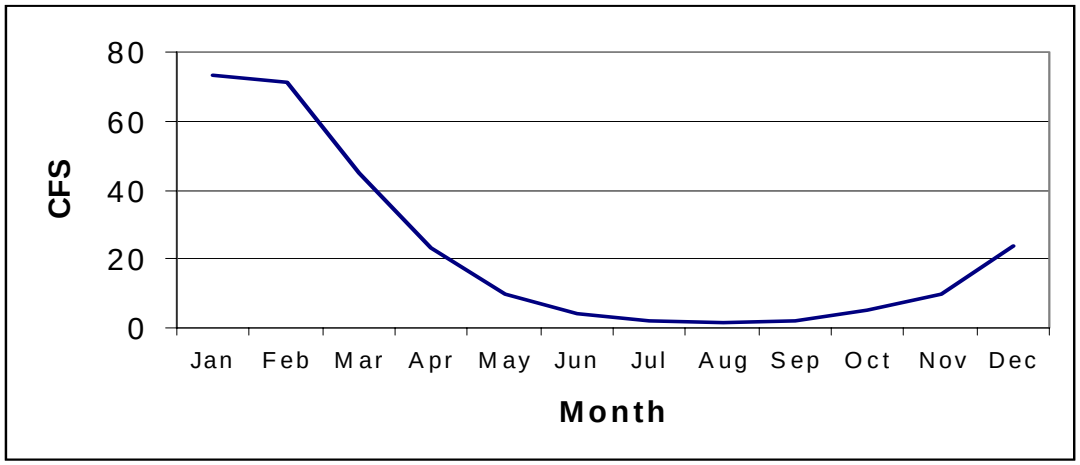
Note: USGS gage number 11163000 (USGS 2002)

Figure E-7 Mean monthly flows from 1953 to 1983 on Marsh Creek near Byron



Note USGS gage number 11337500 (USGS 2002)

Figure E-8 Mean monthly flows from 1967 to 2000 on San Lorenzo River at San Lorenzo



Note: USGS gage number 11181040 (USGS 2002).

Photo E-1 Lower Alameda Creek—inflatable dam

Photo E-2 Lower Alameda Creek—Bart Weir

Paul Salop photo

Photo E-3 Alameda Creek—Sunol Dam

SFPUC photo

Photo E-4 Alameda Creek—Niles Dam

SFPUC photo

Photo E-5 Alameda Creek—East Bay Regional Park District swim dam prior to removal in 2001

Jeff Miller photo

Photo E-6 Los Trancos Creek—Old Los Trancos Flashboard Dam

Kevin Murray, SF Creek JPA photo

Photo E-7 Marsh Creek—drop structure

NH photo

Photo E-8 San Francisquito Creek—Searsville Dam

Matt Stoecker photo

Photo E-9 Palomares Creek—Don Castro spillway

ACPWA photo

Photo E-10 Cull Creek—Cull Canyon spillway

ACPWA photo

Photo E-11 York Creek—York Creek Dam, downstream face

DWR photo

Table E-1 Partial list of barriers to fish passage in the Alameda Creek watershed

Structure name	RM	Height (ft)	Width (ft)	Description	Fish passage facility	Passage?
Alameda Creek						
BART weir	9.5	12		Concrete sloping drop structure	None	No
Middle Inflatable Dam	9.6	13	276	Seasonal, inflatable rubber dam	None	Passable when deflated
Upper Inflatable Dam	10.5	13	375	Seasonal, inflatable rubber dam	None	Passable when deflated
Niles Dam	11.9	6		Dam	Nonfunctional ladder	Observed passable at 233-397 cfs
Sunol Dam	16.3	22		Dam	Nonfunctional ladder	No
Natural Gas Pipeline	18.6	10		Sloping articulated concrete mat protecting 36 ft.	None	Barrier at all but the highest flows
Weir	19.7	6		Rock gabions 6 ft. high and 10 ft. deep	None	Passable at modest flows
Alameda Creek Diversion Dam	27.6			Dam diverts water to Calaveras Reservoir	None	No
Arroyo Mocho						
Drop structure	0	2-3		Sloping structure and concrete apron	None	Structure removed
Drop structure	7.5	3-4		Vertical structure stabilizing a railroad bridge	Potential passage in a side channel.	No passage at 10-12 cfs. May be passable at higher flows.
Road crossing	12	Sloping 20 ft. section		Concrete apron, 20-ft. steeply sloping section plus 20-ft. low gradient section	None	Structure removed

Table E-2 Partial list of barriers to fish passage in Los Trancos Creek – San Mateo and Santa Clara counties

Structure name	RM	Height (ft)	Width (ft)	Description	Fish passage facility	Passage?
Los Trancos Flashboard Dam	3	6		Flashboard dam with concrete-lined basin	Dam is notched	Passable at intermediate and high flows
Felt Lake Diversion Dam	2.5			Dam	Ladder	Operating
Culvert				Double Box Culvert		Low flow barrier
Culvert				Double Box Culvert		Low flow barrier

Table E-3 Partial list of barriers to fish passage in Marsh Creek - Contra Costa County

Structure name	RM	Height (ft)	Width (ft)	Description	Fish passage facility	Passage?
Marsh Creek drop-structure		5	40	Concrete drop-structure	None	Maybe under extreme high flows

Table E-4 Partial list of barriers to fish passage in San Francisquito Creek – San Mateo and Santa Clara Counties

Structure name	RM	Height (ft)	Width (ft)	Description	Fish passage facility	Passage?
Stanford golf cart crossing	6.96			42-inch iron and 24-inch asbestos cement pipe culvert under a road	None	Removed in summer 2004
Bonde Bridge apron	4.76			Bridge apron/culvert	None	Pending funding, landowner permission, & permitting
Unnamed weir	7.77			Dam/weir	None	Needs evaluation
Lake Lagunita Diversion Dam	8.01			Dam/weir	None	Needs evaluation

Table E-5 Partial list of barriers to fish passage in San Lorenzo Creek - Alameda County

Structure name	RM	Height (ft.)	Width (ft.)	Description	Fish passage facility	Passage?
Don Castro Dam				Dam	None	No
Cull Canyon Dam				Dam	None	No
Zone 2, Line B Lorenzo C Fld Control Channel				3.8 Mile long Concrete Flood Control Channel	None	A barrier

Table E-6 Partial list of barriers to fish passage in York Creek – Napa County

Structure name	RM	Height (ft)	Width (ft)	Description	Fish passage facility	Passage?
Diversion structure	2	5		Proposed infiltration gallery	Cascading steps with resting pools	Passable at all flows
York Dam	2.5	50		Earthen dam	None	No